

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P393636

Luminaire Tested: **24EN-LD2-67-UNV-L82765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-67-UNV-L82765-W2A-1-U (3500K)
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6305.1 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

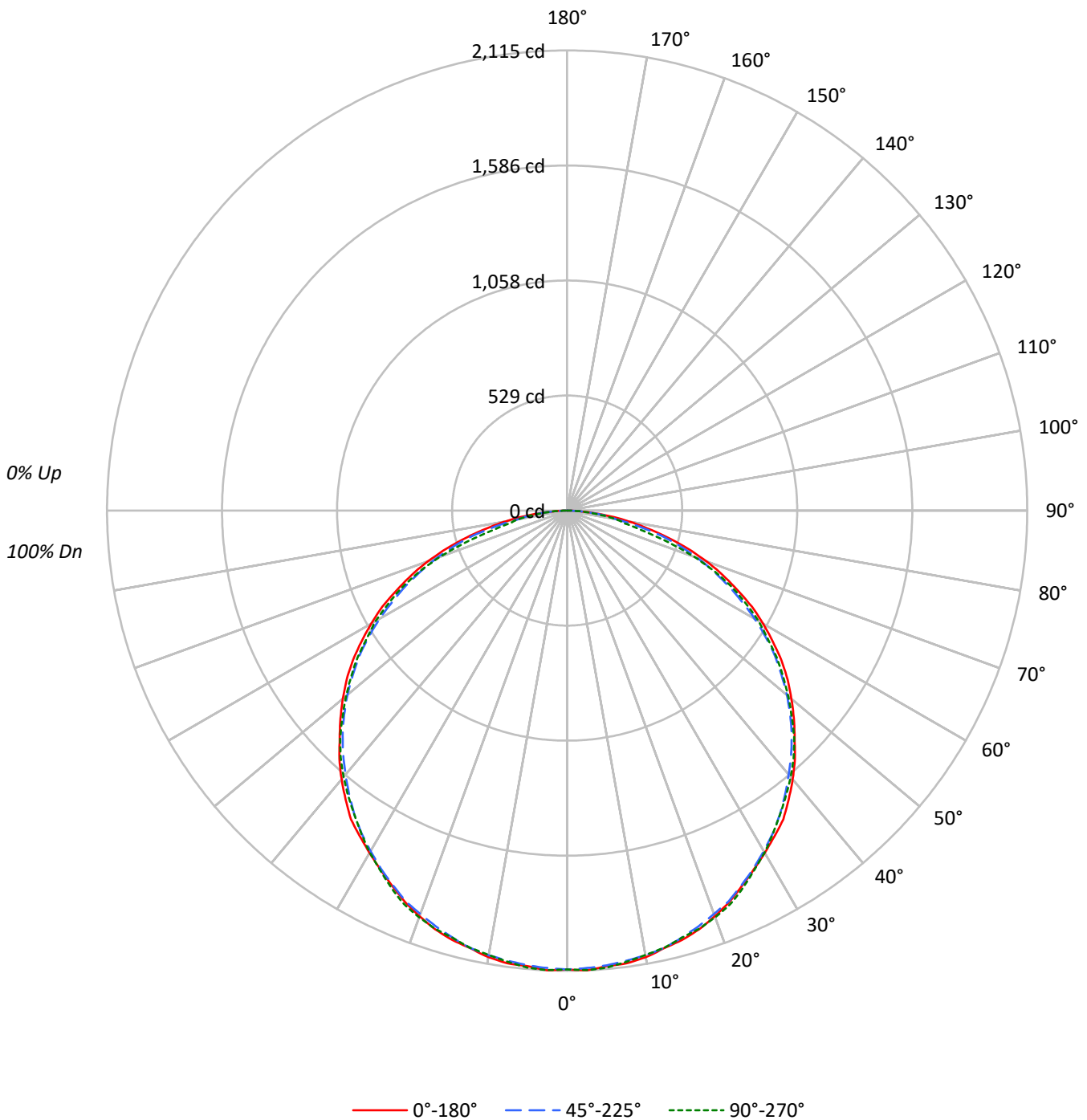
Input Watts (W): 48.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393636

CATALOG NUMBER: 24EN-LD2-67-UNV-L82765-W2A-1-U (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P393636

CATALOG NUMBER: 24EN-LD2-67-UNV-L82765-W2A-1-U (3500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2838	2838	2838
5°	2838	2833	2848
10°	2848	2835	2834
15°	2846	2831	2833
20°	2841	2825	2849
25°	2825	2818	2840
30°	2822	2808	2819
35°	2845	2800	2800
40°	2833	2783	2808
45°	2813	2777	2806
50°	2817	2760	2776
55°	2822	2737	2757
60°	2798	2679	2737
65°	2744	2602	2669
70°	2675	2511	2448
75°	2486	2334	1886
80°	2245	1783	1776
85°	1798	1638	1491



TEST NUMBER: P393636

CATALOG NUMBER: 24EN-LD2-67-UNV-L82765-W2A-1-U (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	3.2
10°-20°	574.5	9.1
20°-30°	877.3	13.9
30°-40°	1069.0	17.0
40°-50°	1131.7	17.9
50°-60°	1048.4	16.6
60°-70°	823.2	13.1
70°-80°	458.9	7.3
80°-90°	122.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1651.5	26.2
0°-40°	2720.4	43.1
0°-60°	4900.6	77.7
0°-90°	6305.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6305.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2109	2109	2109	2109	2109	
5°	2102	2105	2098	2095	2108	200
15°	2043	2035	2032	2029	2034	577
25°	1903	1905	1898	1901	1913	878
35°	1732	1711	1705	1697	1705	1080
45°	1478	1476	1460	1461	1475	1143
55°	1203	1183	1167	1160	1175	1073
65°	862	844	817	828	838	855
75°	478	462	449	386	363	507
85°	116	107	106	98	97	135
90°	0	0	0	0	0	



TEST NUMBER: P393636

CATALOG NUMBER: 24EN-LD2-67-UNV-L82765-W2A-1-U (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2109.2	2109.2	2109.2	2109.2	2109.2
2.5°	2114.9	2105.4	2104.5	2106.4	2114.0
5°	2101.6	2105.4	2097.9	2095.0	2108.3
7.5°	2098.8	2096.9	2086.5	2079.9	2091.2
10°	2084.6	2081.8	2075.1	2064.7	2074.2
12.5°	2060.0	2061.9	2059.0	2047.7	2058.1
15°	2042.9	2035.3	2032.5	2028.7	2033.5
17.5°	2018.3	2003.1	2004.1	2009.8	2015.5
20°	1984.2	1970.9	1972.8	1983.3	1989.9
22.5°	1947.3	1941.6	1942.5	1946.3	1958.6
25°	1902.8	1904.6	1898.0	1900.9	1913.2
27.5°	1859.2	1865.8	1854.4	1851.6	1862.0
30°	1816.6	1819.4	1807.1	1800.5	1814.7
32.5°	1773.9	1767.3	1758.8	1749.3	1760.7
35°	1732.3	1711.4	1704.8	1697.2	1704.8
37.5°	1672.6	1655.6	1645.1	1646.1	1652.7
40°	1612.9	1594.0	1584.5	1592.1	1598.7
42.5°	1549.5	1532.4	1523.9	1529.6	1541.0
45°	1478.4	1475.6	1459.5	1461.4	1474.7
47.5°	1413.1	1409.3	1390.4	1390.4	1399.8
50°	1345.8	1335.4	1318.4	1312.7	1326.0
52.5°	1277.7	1259.7	1241.7	1239.8	1251.1
55°	1202.8	1182.9	1166.8	1160.2	1175.4
57.5°	1121.4	1102.4	1081.6	1081.6	1091.1
60°	1039.9	1017.2	995.4	996.4	1017.2
62.5°	957.5	934.8	904.5	910.2	927.2
65°	861.9	843.9	817.4	827.8	838.2
67.5°	773.8	753.9	726.4	735.9	735.9
70°	680.0	654.5	638.4	627.9	622.3
72.5°	581.5	557.8	546.5	508.6	492.5
75°	478.3	462.2	448.9	385.5	362.7
77.5°	379.8	371.3	335.3	280.3	267.1
80°	289.8	283.2	230.1	228.3	229.2
82.5°	197.9	190.4	176.2	164.8	159.1
85°	116.5	107.0	106.1	97.6	96.6
87.5°	38.8	42.6	44.5	43.6	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)